

INSPECTION REPORT

APPLICABLE DOC. REF.

AMS02-PDS PFM Manufacturing and Inspection Plan PDS-PL-CGS-001
is. 1

PROC. REF.

N.A.

ITEM INSPECTED (Name, P/N, S/N) AMS02-PDS PFM – BOARDS — Inspection Point.

REQUIREMENT SATISFIED

Manufacturing according to aerospace standards

INSPECTION (Action/Results)

DESCRIPTION

Inspection was performed at Carlo Gavazzi Space premises starting on 28 May 2008 and was carried out on the following boards, detail of the inspected boards were below reported:

- 1) AUX DC/DC Board ASSY p/n:11-AMS02PDS-740.00 s/n:07-016 / B.
- 2) AUX DC/DC Board ASSY p/n:11-AMS02PDS-740.00 s/n:07-014 / A.
- 3) AUX DC/DC Board ASSY p/n:11-AMS02PDS-740.00 s/n:07-014 / G.
- 4) Can Bus I/F Board ASSY p/n:11-AMS02PDS-500.00 s/n:02 (pcb s/n:A1-1B).

HARDWARE REVIEW

1) AUX DC/DC BOARD ASSY p/n:11-AMS02PDS-740.00 s/n:07-016 / B, Assy:11-AMS02PDS-740.00 rev./, Parts List:11-AMS02PDS-740.02 rev./, Electrical Scheme:11-AMS02PDS-740.03 rev./, Master PCB:SPO-PD-020010-DR-03-CGS rev./.

The following NCR were presented during the inspection:

- NCR-PDS-CGS-C-040(electrical connection missing on pcb), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wire with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-042(OVC protection improvement), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added components and wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.

The following PLVSS (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-740.02 rev / - A2 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A5 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A13 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A15 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A16 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

Operator	Quality Assurance	C.C.
Signature	E. FRANCIANI	C. CINQUEPACCHI
Date	29/05/08	C. Cinquelpacchi 11/06/08

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2) AUX DC/DC BOARD ASSY p/n:11-AMS02PDS-740.00 s/n:07-014 / A, Assy:11-AMS02PDS-740.00 rev./, Parts List:11-AMS02PDS-740.02 rev./, Electrical Scheme:11-AMS02PDS-740.03 rev./, Master PCB:SPO-PD-020010-DR-03-CGS rev./.

The following NCR were presented during the inspection:

- NCR-PDS-CGS-C-041(electrical connection missing on pcb), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wire with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-043(OVC protection improvement), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added components and wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-057(lifted pad on pcb), NCR classified "minor" is closed.

The following PLVSS (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-740.02 rev / - A1 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A6 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A13 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A15 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A16 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

3) AUX DC/DC BOARD ASSY p/n:11-AMS02PDS-740.00 s/n:07-014 / G, Assy:11-AMS02PDS-740.00 rev./, Parts List:11-AMS02PDS-740.02 rev./, Electrical Scheme:11-AMS02PDS-740.03 rev./, Master PCB:SPO-PD-020010-DR-03-CGS rev./.

The following NCR were presented during the inspection:

- NCR-PDS-CGS-C-041(electrical connection missing on pcb), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wire with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-043(OVC protection improvement), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added components and wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.

Operator

Quality Assurance

C.C.

Signature

Date

E. FRANCHINI

29/05/08

C. CINQUEPALMI
C. Cinquelpalmi
11/06/08

C. G. S.

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INSPECTION (Action/Results)

The following PLVVs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-740.02 rev / - A1 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A7 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A13 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A15 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A16 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

4) Can Bus I/F Board ASSY p/n:11-AMS02PDS-500.00 s/n:02 (pcb s/n:A1-1B), Assy:11-AMS02PDS-500.00 rev./, Parts List:11-AMS02PDS-500.01 rev./, Electrical Scheme:11-AMS02PDS-500.02 rev./, Master PCB:11-AMS02PDS-500.03 rev./.

The following NCR were presented during the inspection:

- NCR-PDS-CGS-C-036(output clock line driver enable control problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wire with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-051(OVC protection improvement), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added components and wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.
- NCR-PDS-CGS-C-052(C197 footprint wrong on pcb), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the component with adhesive EC 2216 B/A, perform a visual inspection of the previous rework.

The following PLVVs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-500.01 rev / - A1 can be considered closed.
- 11-AMS02PDS-500.01 rev / - A2 can be considered closed.
- 11-AMS02PDS-500.01 rev / - A3 can be considered closed.
- 11-AMS02PDS-500.01 rev / - A4 can be considered closed.

The U8 (DS18S20 thermometer) component is not mounted.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

Operator

Quality Assurance

C.C.

Signature

Date

E. FRANCAVI

29/05/08

C. CINQUEPALMI

C. Cinquepalmi

11/06/08

 <p>CARLO GAVAZZI</p> <p>CARLO GAVAZZI SPACE SpA</p>	<p>AMS02-PDS</p>	<p>DOC N°: PDS-RP-CGS-010</p> <p>ISSUE : 1 DATE: 29/05/2008</p> <p>PAGE : 4 of 4</p>
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<p>INSPECTION (Action/Results)</p>	
<p>CONCLUSION</p> <p>All solder joints are of adequate quality, the soldering process complies to ECSS-Q-70-08 and ECSS-Q-70-38, all modifications are performed according to ECSS-Q-70-28.</p> <p>The open points are here listed:</p> <ol style="list-style-type: none"> 1) NCR-PDS-CGS-C-040(electrical connection missing on pcb), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wire with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 2) NCR-PDS-CGS-C-042(OVC protection improvement), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added components and wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 3) NCR-PDS-CGS-C-041(electrical connection missing on pcb), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wire with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 4) NCR-PDS-CGS-C-043(OVC protection improvement), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added components and wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 5) NCR-PDS-CGS-C-036(output clock line driver enable control problem), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added wire with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 6) NCR-PDS-CGS-C-051(OVC protection improvement), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the added components and wires with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 7) NCR-PDS-CGS-C-052(C197 footprint wrong on pcb), NCR classified "minor" is still open during the inspection activity, the following corrective actions will be performed: glue the component with adhesive EC 2216 B/A, perform a visual inspection of the previous rework. 8) On Can Bus I/F Board ASSY p/n:11-AMS02PDS-500.00 s/n:02 (pcb s/n:A1-1B), the U8 (DS18S20 thermometer) component is not mounted. 	
<p>Operator</p> <p>Signature</p> <p>Date</p>	<p>Quality Assurance</p> <p>C.C.</p> <p>C. CINQUEPALMI</p> <p>C. Cinquelpalmi</p> <p>11/06/08</p>